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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/298,910	04/26/1999	NORIYOSHI SONETAKA	Q54131	2573

7590 09/03/2004

SUGHRUE MION ZINN MACPEAK & SEAS
2100 PENNSYLVANIA AVENUE N W
WASHINGTON, DC 200373202

EXAMINER

WEST, LEWIS G

ART UNIT	PAPER NUMBER
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2682

DATE MAILED: 09/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/298,910

Applicant(s)

SONETAKA, NORIYOSHI

Examiner

Lewis G. West

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 10,12,14 and 16-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 10,12,14 and 16-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 August 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Response to Arguments

1. Applicant's arguments filed June 24, 2004 have been fully considered but they are not persuasive. Applicant now discloses each digit being sent as dialed, which is clearly shown in Bilgic.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 10 and 18-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Bilgic (US 5,884,148).

Regarding claim 1, Bilgic discloses a radio access system comprising: means for producing dialing signals comprising a telephone set having a dial pad with keys, wherein a dialing signal is generated each time a key of said dial pad is pushed (col. 10 line 22- col. 11 line 24); a base station control station (113) in radio communication with said means for producing dialing signals through a base station; and means for transmitting the dialing signal to the said base station control station each time a dialing signal is generated (col. 11 lines 8-24); said base station including means for deciding whether a received dialing signal represents a final digit of a dialed telephone number or not. (Col. 11 line 39-48)

Regarding claim 18, Bilgic discloses the radio access system according to claim 10, wherein said base station opens a communications channel after deciding that a received dialing signal represents the final digit of the dialed telephone number. (Bilgic col. 8 line 21-42)

Regarding claim 19, Bilgic discloses the radio access system according to claim 10, wherein said means for deciding comprises an inter-digit timer and a means for determining that a dialing signal has not been received for a fixed period of time. (Bilgic col. 8 line 21-42)

Regarding claim 20, Bilgic discloses the radio access system according to claim 10, wherein said means for deciding comprises an inter-digit timer and a means for determining that a dialing signal has not been received for a variable period of time. (Bilgic col. 8 line 21-42)

Regarding claim 21, Bilgic discloses the radio access system according to claim 10, wherein said means for deciding comprises a means for counting a fixed number of said dialing signals. (Bilgic col. 8 line 21-42)

Regarding claim 22, Bilgic discloses the radio access system according to claim 10, wherein said means for deciding comprises a means for counting a variable number of said dialing signals. (Bilgic col. 8 line 21-42)

Regarding claim 23, Bilgic discloses the radio access system according to claim 10, wherein said base station and said base station control station are connected to each other in a point-to-point access configuration. (Bilgic Col 4 lines 4-23)

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Regarding claim 24, Bilgic discloses the radio access system according to claim 10, wherein said base station and said base station control station are connected to each other in a point-to-multipoint access configuration. (Bilgic Col 4 lines 4-23)

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 12, 14 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bilgic (US 5,884,148) in view of Suonvieri (6,047,181).

Regarding claim 12, Bilgic discloses a radio access system comprising: means for producing dialing signals (col. 10 line 22-col. 11 line 24); means for transmitting the dialing signals each time they are produced (col. 11 lines 8-24) and a base station in radio communication with said means for producing dialing signals (col. 11 line 25-38), said base station including means for deciding whether a dialing signal represents a final digit of a dialed telephone number or not, (col. 11 line 39-48) wherein said means for producing dialing signals includes a telephone set having a dial pad with keys, a dialing signal being generated when a key of said dial pad is pushed (col. 11 line 39-48) Bilgic does not expressly disclose digit analysis in the base station control station. However, Suonvieri discloses that some functions, including timer functions, may be carried out either in the base station or the base station controller. (Col. 5 lines 19-39) It would have therefore been obvious to one of ordinary skill in the art at the time of the invention to send digits to and perform digit analysis in the base station control station to avoid repeated circuitry or software updates in multiple base stations.

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Regarding claim 14, Bilgic discloses a radio access system comprising: means for producing dialing signals (col. 10 line 22-col. 11 line 24); means for transmitting the dialing signals each time they are produced (col. 11 lines 8-24) and a base station in radio communication with said means for producing dialing signals (col. 11 line 25-38), said base station including means for deciding whether a dialing signal represents a final digit of a dialed telephone number or not, (col. 11 line 39-48) wherein said means for producing dialing signals includes a telephone set having a dial pad with keys, a dialing signal being generated when a key of said dial pad is pushed (col. 11 line 39-48) Bilgic does not expressly disclose digit analysis in the base station control station. However, Suonvieri discloses that some functions, including timer functions, may be carried out either in the base station or the base station controller. (Col. 5 lines 19-39) It would have therefore been obvious to one of ordinary skill in the art at the time of the invention to send digits to and perform digit analysis in the base station control station to avoid repeated circuitry or software updates in multiple base stations.

Regarding claim 16, Bilgic discloses a radio access method comprising the steps of: producing a single digit dialing signal when a key of a dial pad is pushed; transmitting each single digit dialing signal to a base station each time they are produced; and deciding at said base station whether a received single digit dialing signal represents a final digit of a dialed telephone number or not. (Col. 11 lines 8-48) Bilgic does not expressly disclose digit analysis in the base station control station. However, Suonvieri discloses that some functions, including timer functions, may be carried out either in the base station or the base station controller. (Col. 5 lines 19-39) It would have therefore been obvious to one of ordinary skill in the art at the time of the invention to send digits

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to and perform digit analysis in the base station control station to avoid repeated circuitry or software updates in multiple base stations.

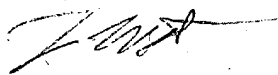
Regarding claim 17, Bilgic discloses a radio access method comprising the steps of: producing dialing signals when a key of a dial pad is pushed; transmitting dialing signals each time they are produced; and deciding at a base station control station whether a dialing signal represents a final digit of a dialed telephone number or not. (Column 11) Bilgic does not expressly disclose digit analysis in the base station control station. However, Suonvieri discloses that some functions, including timer functions, may be carried out either in the base station or the base station controller. (Col. 5 lines 19-39) It would have therefore been obvious to one of ordinary skill in the art at the time of the invention to send digits to and perform digit analysis in the base station control station to avoid repeated circuitry or software updates in multiple base stations.

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis G. West whose telephone number is 703-308-9298. The examiner can normally be reached on Monday-Thursday 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Lewis West
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LEE NGUYEN
PRIMARY EXAMINER